

ABSTRACT**METHOD OF CALIBRATING A SCANNING SYSTEM**

5 A method of measuring an object on a coordinate
positioning apparatus. A first object is placed on a
coordinate positioning apparatus and measured with a
workpiece contacting probe to create measurement data.
The measurement data is collected at multiple stylus
10 deflections or probe forces. For a plurality of points
on the surface of the first object, the measurement
data is extrapolated to that corresponding to zero
stylus deflection or zero probe force. An error
function or map is created from the measurement data
15 and the extrapolated data. Subsequent objects are then
measured using a known stylus deflection or known probe
force and the error function or map is used to apply an
error correction to these measurements.

20 Fig 1